

CLAIM AMENDMENTS

A listing of an entire set of claims 1-7 is submitted herewith per 37 C.F.R. §1.121. This listing of claims 1-7 will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A low-pressure gas discharge lamp equipped with a gas-discharge vessel containing an inert gas filling as [[the]] a buffer gas and an indium halide, a thallium halide, [[and/or]] a copper halide or any mixture thereof, and with electrodes and with means for generating and maintaining a low-pressure gas discharge, characterized in that a compound selected from [[the]] a group of ABO_3 , A_nBO_{2+n} , $A_nC_2O_{5+n}$, [[or]] and $A_nD_2O_{3+n}$ is used as [[the]] an electron emitter substance, wherein:

A = an alkaline earth element or a mixture of several different alkaline earth elements

B = cerium, titanium, zirconium, hafnium, or a mixture of these elements

C = vanadium, niobium, tantalum, or a mixture of these elements

D = scandium, yttrium, lanthanum, a rare earth element, or a mixture of these elements.

2. (Original) A low-pressure gas discharge lamp as claimed in claim 1, characterized in that a reduced emitter substance selected from the group of $ABO_{3-\epsilon}$, $A_nBO_{2+n-\epsilon}$, $A_nC_2O_{5+n-\epsilon}$ or $A_nD_2O_{3+n-\epsilon}$ is used as the electron emitter substance, wherein ϵ represents a small number between 0 and 1.

3. (Currently Amended) A low-pressure gas discharge lamp as claimed in claim 1, characterized in that it contains [[an]] the inert gas from [[the]] a group of helium, neon, argon, krypton, [[and/or]] xenon and any mixture thereof as the buffer gas.

4. (Previously Amended) A low-pressure gas discharge lamp as claimed in claim 1, characterized in that the gas discharge vessel is coated with a fluorescent coating on its interior and/or exterior.

5. (Currently Amended) A [[use of the electron emitter substance]] low-pressure gas discharge lamp as claimed in claim 1, wherein the electron emitter substance is used as the coupling structure for a capacitive operation of a molecular indium halide, thallium halide, or copper halide discharge.
6. (Currently Amended) A [[use of the electron emitter substance]] low-pressure gas discharge lamp as claimed in claim 1, wherein the electron emitter substance is used as the emitter on a tungsten electrode.
7. (Currently Amended) A [[use of the electron emitter substance]] low-pressure gas discharge lamp as claimed in claim 1, wherein the electron emitter substance is used as the electrode material that has been rendered conductive by means of additives.